Poster Presentations

Track 1- Cell Tissue Biomechanics

Bone

2	Martinez, Jerahme	Expression pattern of the mechanoresponsive ion channel piezo2 during skeletal growth and osteoarthritis
4	Parajuli, Ashutosh	Heparin Treatment Rescued Altered Osteoclastogenesis and Osteoblastogenesis in Progenitor Cells from Perlecan Deficient Bone Marrow
6	Wang, Shubo	Effects of Physical Activity on Breast Cancer Bone Metastasis

Cartilage & OA

8	Benson, Jamie	The effects of contact stress and articulation amplitude on fluid load support in articular cartilage
10	Farnham, Margot	Mechanical Injury Alters Tribological Rehydration and Lubrication in Bovine Osteochondral Explants
12	Lv, Mengxi	Chondro-protective Mechanism of Statin
14	Wright, Alison	Quantifying Solute Diffusivity in Human Osteoarthritic Cartilage via Correlation Spectroscopy

Spine & Others

16	Horner, Jeffrey	Modeling Blood Rheology Across Species

Track 2- Clinical Biomechanics

Design & Innovation

18	Parker, Sheridan	SmartBoot 2.0

Gait & OA

20	Aljehani, Moiyad	Association of Clinical and Functional Outcomes with Risk of Fall in Knee Osteoarthritis Patients
22	Fettrow, Tyler	Coordination of balance mechanisms during walking
24	Kempski, Kelley	contribution to forward propulsion with induced asymmetric gait and user-driven treadmill control
26	Mathews, Dana	The Relation of Cumulative Load to Worsening Knee Cartilage Damage Over Two Years: The MOST Study
28	Tracy, James	Dynamic stability during walking in children with and without cerebral palsy: a pilot study

Neuromuscular Modeling & Assessments

30	Farrens, Andria	The Neural Correlates of Motor Adaptation to Dynamic Perturbations
32	Sprague, Andrew	Impaired quadriceps Function may not be captured by standard clinical measures in patellar tendinopathy